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PHOTOGRAPHIC INTERPRETATION REPORT

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AIRFIELD CONSTRUCTION IN THE MIDDLE EAST JUNE 1967 TO JULY 1970

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SEPTEMBER 1970
COPY NO 117
8 PAGES
PIR-060/70

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	TOP SECRET RUFF
	AIRFIELD CONSTRUCTION IN THE MIDDLE EAST JUNE 1967 to JULY 1970
	SUMMARY
status of raphy. Th	e undertaken an extensive airfield construction program, the which has been reported from time to time from KEYHOLE photogis report, which is derived exclusively from KEYHOLE photogates Airfield Construction in the Middle East, June 1967 to 1969.
airfields hangarette identified ments was	ne states of the Middle East have continued to construct new and airstrips, to improve existing fields, and to construct at at most major airfields. In Egypt, dummy hangarettes were for the first time and an increase in large aircraft revetobserved. Large aircraft revetments were also identified for time outside of Egypt.
	NEW AND IMPROVED AIRFIELDS
2 (ince Sentember 1060 Fount has constructed four new airfields

- 3. Since September 1969, Egypt has constructed four new airfleids, bringing the Egyptian construction total since June 1967 to 14 new airfields, one reconstructed airfield, and two new highway airstrips. In Syria, one new airstrip has been constructed since September 1969, for a total since June 1967 of three new airstrips, two new airfields, and three reconstructed airfields. No new construction has been noted in Jordan since the last reporting period; three new airfields and one new airstrip have been constructed there since June 1967. In Iraq, five new dispersal airstrips have been identified since September 1969, bringing the total in that country since June 1967 to five new airfields, 25 new dispersal airstrips, and one reconstructed airfield. No new airfields have been identified in Israel during this reporting period. Since June 1967 one new airfield has been constructed in Israel in addition to the four major Egyptian airfields acquired through the occupation of the Sinai.
- 4. The airfield improvement program also continued during the September 1969 July 1970 reporting period, and, in the case of Syria, it accelerated. During this period, new runways were constructed or existing runways were extended at four airfields in Egypt, six in Syria, two in Iraq, and four in Israel. This brings the total numbers of airfields improved since June 1967 to 18 in Egypt, seven in Syria, three in Jordan, 14 in Iraq,

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Table 1. Airfield Construction June 1967 - July 1970 Construction Status Item

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Item BE Number BE Number Construction Status EGYPT JORDAN Runways extended New airfield ucon New airfield new runway New airfield & new runway New runway & runway extended 55 Mersa Matruh
Saiyah El Shirif
Al Rahmaniyah
Jiyanklis New
Al Mansurah H-4 New New airfield & new graded-earth runways Wadi El Murbah Highway Airstrip Ruwayshid 56 New highway airstrip New airfield & new graded-earth runway Runway extended New airfield 57 New runway & runway extended New airfield ucon. New airfield New airfield New airfield New runway & runway extended New airfield New infield New highway airstrip Al Mansurah
Al Manzilah
Birma
As Salihiyah
Wadi Natrun Northeast
Quwaysina
Az Zaqaziq
Minshat Sabri Highway
Airstrin 7 8 9 10 11 12 IRAO Minshat Sabri Highway Airstrip Bilbays Wadi Natrun South Tukh Highway Airstrip Inchas Cairo West Embaba Wadi Al Jandali Siwa Omsis Rew Al Fayyuwa Mosul Qayyarah South New graded-earth runway Runway extended New airstrip Reconstructed 60 61 62 63 64 65 66 67 71 72 73 74 75 New runway & runways extended New airfield New highway airstrip New runway New runway & runway extended 13 14 15 16 17 18 19 20 21 K-2 Airfield Al Fathah
Tall Ashtah
Tikrit
Tikrit Highway Airstrip
Samarra New airstrip New airstrip New runway & runway extended
New runway, moon
New airfield & new runway, ucon
New airfield & new runway
New sirfield
Runway extended
Runway extended
Runway extended
Runway extended
Runway extended
Runway extended
New runway
New sirfield
Runway extended
Runway extended
New runway
New sirfield
Runway extended
Runway extended
New runway
Reconstructed New airstrip New highway airstrip Runway extended New airstrip Numway, extended New airstrip New oiled-sami runway New airstrip New airstrip New airstrip New airstrip New airstridd airstrip New airstridd airstrip New airstrip Samarra New Jalula Beni Suef Wadi Abu Rish Ras Gharib Hurghada New Wadi Abu Shihat New Valley 22 24 25 26 27 28 29 30 31 32 Diltawa Subakhu H-3 Northwest H-3 Northeast H-3 Airfield Luxor Daraw Aswan Ras Banas Abu Sunbul 76 77 78 79 H-3 Highway Airstrip H-3 Southwest H-3 East
Ar Rutbih
Ogsr Amil
Habbaniyah
Habbaniyah
Habbaniyah
Habbaniyah
Habbaniyah
Bagulah
Bagulah
Bagulah
Bagulah
Bagulah
Bagulah
Shayah Jasim
Shayah Hasim
Shayah Jasim
Jasim
Al Takandaniyah New
Karbala Northeast
Karbala Nest
Al Kut South
An Najer
Al Amarah
Ur Junction
Shaibah West
Shaibah West H-3 East Two new runways
Runway, extended
New alrestrip
New alrestrip
New oiled-sand runway
New airstrip
New airstrip New airstrip
New airstrip
New airstrip
New airstrip
New airstrip
New airstrip
New airstrip
New airstrip Jirah Tabagah Hamah 43 44 45 New airstrip Runway extended & new gradedearth runway Reconstructed & new graded-Reconstructed & new graded-earth runway
New runway & runway extended
Reconstructed & 3 new graded-earth runways
New airfield & 3 new graded-earth runways
Runway extension ucon & 2 new graded-earth runways
New highway airstrip
New airstrip
3 new graded-earth runways
New airstrip
3 new graded-earth runways 47 48 49 An Nasiriyah 50 - Airfields & airstrips constructed since June 1967 Damascus Highway Airstrip Jarba Marj Rhayal Kholkhole 3 new graded-earth runways New airfield

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10

32

Hangarette Construction June 1967 - July 1970

Airfield

Number of Bays

			Dop oy	oun of		!			sep oy	Jun o/	i ~	
		EGYPT										
Mersa M	atruh		8	8	Single							
			7	7	Large revetments	l .						
	El Shirif			14	Single							
Al Rahm	aniyan			12 (8)*	Single							
Jiyankl	in Nov.			4 (1) 14 (10)	Double	1						
o ry minz	new			14 (10) 10	Single Double	1						
				3	· Large shelters	!						
Al Mans	urah			31 (8)	Single	11						
			1	31 (8) 7	Double	ll .						
				1	Triple	ll .						
Birma			12	18 (6)	Single	li						
As Sali	hiveh		4	6 (2)	Double	ll .						
No Dall	III yan		7	18 (13) 1	Single Double	ll .						
Wadi Na	trun Northeast		9	24 (4)	Single	II.						
			9	6	Double	11						
			15	15	Large revetments	ll .						
Quwaysi	na			15	Single	ĮĮ.						
				2	Double	li						
Az Zaqa	ziq			16 (7)	Triple Single	II						
	.			2,	Double	li						
	trun South		8	8	Single	II						
Kafr Da	ud			1 '	Single	H						
Minshat Airst	Sabri Highway			L.		II						
Bilbays				3	Single	4						
Bilbays	-			28 (6)	Large shelters Single	1						
				· 8 Dummy	Single]]						
			í	3	Double	li						
				3	Large shelters	ll.						
	ghway Airstrip			4	Single	ii .						
Inchas				31 (2) 13 Dummy	Single	II.						
Abu Suw	avr			18 (12)	Single Single	1						
Cairo W				28 (8)	Single	i						
				7 Dummy	Single	ll.						
				3	Double	H						
			14	14	Large revetments	II						
Cairo A	ghway Airstrip			4 (21)	Single	1						
Carro A.	Liidza			27 (14) 1	Single Double	ľ						
Faid				11 (4)	Single							
				4 (3)	Double			JORDAN				
Wadi Al	Jandali		4	1.6	Single			6 OMOAN	1			
Hulwan				21	Single	56	King Hussein		12	24	Single	
Al Fayyı	um			16 (11) 2	Single	57 58	Prince Hasan		26	39	Single	
Beni Sue	of .			32 (6)	Double Single	58 59	H-4 New			13	Single	
Don't Day			1	1	Double	60	Ruwayshid Azraq		2	8 8	Single	
			. 8	<u>1</u> ;	Large shelters		nerad		-	O .	Single	
Wadi Abu			. 8	8 (4)	Single							
Hurghada			0	16 (11)	Single							
Wadi Abu Luxor	Shinat		8	8 (2)	Single	61	Mosul			8	Single	
Daraw			0	18 (18)	Single Single	62	Kirkuk			10	Single	
				1 (1)	Double	63 64	H-3 Northwest H-3			8	Single	
Aswan			7	22 (2)	Single	1	11-0			12	Single Double	
		-		3	Large shelters	65	H-3 Southwest			8	Single	
			9	9	Large revetments	66	Habbaniyah			ŭ ·	Single	
Ras Bana	as			14 (14)	Single	67	Habbaniyah Plateau		1	15	Single	
	L			1 .	Double	68	Rashid			10	Single	
		LEBANON				69 70	Al Kut South		12	12	Single	
,						71	Ur Junction Shaibah		8 10	8 14	Single	
Kleiat	[4	4	Single -	i '*	oner oun		10	14	Single	
								L	I			

*Parentheses indicate number of hangarettes with probable protective structures
**Not shown on graphic

72

Wadi Seidna**

13

SUDAN

25X1 25X1 25X1

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25X1

25X1 25X1



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5. Figure 1, keyed to Table 1, shows locations of new and improved airfields and airstrips.

HANGARETTES, SHELTERS, AND LARGE AIRCRAFT REVETMENTS

- 6. Since September 1969, 90 hangarettes have been constructed in Egypt, 30 in Syria, 40 in Jordan, and 35 in Iraq. This brings the construction total at Arab airfields since the June 1967 war to 1,004 hangarettes with spaces for 1,108 fighter aircraft.
- 7. Egypt, the first of the Arab states to begin constructing hangarettes following the war, has built 578 hangarettes with spaces for 638 aircraft. In addition, 28 dummy hangarettes have been identified in Egypt.¹ Egypt has also continued to construct structures in front of hangarette doors probably designed for protection.² One hundred and seventy-eight of these structures have been identified at 19 Egyptian airfields.
- 8. Syria had 24 single-bay hangarettes prior to the war and has constructed an additional 217 with spaces for 257 aircraft. Iraq has built 113 hangarettes with spaces for 117 aircraft, and Jordan has constructed 92 single-bay hangarettes. Four single-bay hangarettes have recently been identified in Lebanon.

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- 10. Figure 2, keyed to Table 2, shows the location of hangarettes, probable protective structures, and large aircraft revetments and shelters.
- ll. A recent development in Egypt has been a significant increase in large aircraft revetments (those capable of accommodating BADGER aircraft). Such revetments have recently been identified at Cairo West, Mersa Matruh, Wadi Natrun Northeast, and Aswan airfields in Egypt, and, for the first time outside the country, at Wadi Seidna Airfield in Sudan (Figure 3). The large revetments are in addition to the previously reported large aircraft shelters which are also capable of accommodating BADGER aircraft. These shelters consist of steel frameworks with canvas or net coverings. As of July 1970 there were 16 large aircraft shelters and 45 large aircraft revetments in Egypt and 13 large revetments in Sudan.

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